(Rel.41-5/91	Pub.605)	FORM 4-3

4-3

Docket No. SCHULZ, W-1 - CIP

**PATENT** 

ATTN.: BOX PATENT APPLICATION **Assistant Commissioner for Patents** 

Washington, D.C. 20231

# NEW APPLICATION TRANSMITTAL

Transmitted herewith for filing is the patent application of Inventor(s): WOLFGANG SCHULZ
WARNING: Patent must be applied for in the name(s) of all of the actual inventor(s). 37 CFR 1.41(a) and 1.53(b).
For (title): CONTROL ELEMENT FOR A NUCLEAR REACTOR
1. Type of Application
This new application is for a(n) (check one applicable item below):
X Original
□ Design
□ Plant
Warning: Do not use this transmittal for a completion in the U.S. of an International Application under 35 U.S. C. 371(c)(4) unless the International Application is being filed as a divisional, continuation or continuation-in-part application.
NOTE: If one of the following 3 items apply, then complete and attach ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF A PRIOR U.S. APPLICATION CLAIMED.
☐ Divisional
□ Continuation
X Continuation-in-part (CIP)
CERTIFICATION UNDER 37 CFR 1.10
I hereby certify that this New Application Transmittal and the documents referred to as enclosed therein are being deposited with the United States Postal Service on this date <u>January 18, 2001</u> in an envelope as "Express Mail Post Office to Addressee" Mailing Label Number <u>EL 622 000 661 US</u> addressed to the: Assistant Commissioner for Patents and Trademarks, Washington, D.C. 20231
Type or print name of person mailing paper)  LISA L. VULPIS  (Signature of person mailing paper)

NOTE: Each paper or fee referred to as enclosed herein has the number of the "Express Mail" mailing label placed thereon prior to mailing. 37 CFR 1.10(b).

(Application Transmittal [4-1]--page 1 of 8)

2.	<b>Benefit of Prior</b>	U.S. A	pplication(s)	(35	U.S.C.	120)
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NOTE: If the new application being transmitted is a divisional, continuation or a continuation-in-part of a parent case, or where the parent case is an International Application which designated the U.S., then check the following item and complete and attach ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED.

X The new application being transmitted claims the benefit of prior U.S. application(s) and enclosed are ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED.

API	PLICATION(S) CLAIMED.
	rs enclosed which are Required for Filing Date under 37 CFR 1.53(b) (Regular) or 37 CFR 1.153 gn) Application
27	Pages of specification
_3	Pages of claims
_1	Pages of Abstract
_6	Sheets of drawings
X for	mal
□ info	ormal
	NG: DO NOT submit original drawings. A high-quality copy of the drawings should be supplied when filing a patent application. The drawings that are submitted to the Office must be on strong, white, smooth, and non-shiny paper and meet the standards according to §1.84. If corrections to the drawings are necessary, they should be made to the original drawing and a high-quality copy of the corrected original drawing then submitted to the Office. Only one copy is required or desired. Comments on proposed new 37 CFR 1.84. Notice of March 9, 1988 (1990 O.G. 57-62).  "Identifying indicia such as the serial number, group and unit, title of the invention, attorney's docket number, inventor's name, number of sheets, etc. not to exceed 2¾ inches (7.0 cm) in width, may be placed in a centered located between the side edges within three-fourths inch (19.1 mm) of the top edge. Either this marking technique on the front of the drawing or the placement, although not preferred, of this information and the title of the invention on the back of the drawings is acceptable." Proposed 37 CFR 1.84(1). Notice of March 9, 1988 (1990 O.G. 57-62).
4. Add	itional papers enclosed
X	Preliminary Amendment
	Information Disclosure Statement
	Form PTO-1449
	Citations
	Declaration of Biological Deposit
	Submission of "Sequence Listing," computer readable copy and/or amendment pertaining thereto for biotechnology invention containing nucleotide and/or amino acid sequence.
	Authorization of Attorney(s) to Accept and Follow Instructions from Representative.
	Special Comments
X	Other

Decla	aration or oath
X	Enclosed
	executed by (check all applicable boxes)
	X inventor(s).
	☐ legal representative of inventor(s). 37 CFR 1.42 or 1.43
	☐ joint inventor or person showing a proprietary interest on behalf of inventor who refused to sign or cannot be reached.
	□ this is the petition required by 37 CFR 1.47 and the statement required by 37 CFR 1.47 also attached. See item 13 below for fee.
	□ Not Enclosed.
Warning	g: Where the filing is a completion in the U.S. of an International Application but where a declaration is not available or where the completion of the U.S. application contains subject matter in addition to the International Application the application may be treated as a continuation or continuation-in-part, as the case may be, utilizing ADDED PAGE FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION CLAIMED.
	☐ Application is made by a person authorized under 37 CFR 1.41(c) on behalf of <i>all</i> the above-named inventor(s). The declaration or oath, along with the surcharge required by 37 CFR 1.16(e) can be filed subsequently.
NOTE:	It is important that all the correct inventor(s) are named for filing under 37 CFR 1.41(c) and 1.53(b).
	☐ Showing that the filing is authorized. (Not required unless called into question. 37 CFR 1.41(d).
6 Inve	entorship Statement
	ing: If the named inventors are each not the inventors of all the claims an explanation, including the ownership of the various claims at the time the last claimed invention was made, should be submitted
The ir	eventorship for all the claims in this application are:
X	The same or
	Are not the same. An explanation, including the ownership of the various claims at the time the last claimed invention was made.
	☐ is submitted
	□ will be submitted.
7. Lan	nguage
	An application including a signed oath or declaration may be filed in a language other than English. A verified English translation of the non-English language application and the processing fee of \$30.00 required by 37 CFR 1.17(k) is required to be filed with the application or within such time as may be set by the Office. 37 CFR 1.52(d).  A non-English oath or declaration in the form provided or approved by the PTO need not be translated.
	CFR 1.69(b).
	English
	non-English
	the attached translation is a verified translation. 37 CFR 152(d).

8. Assignment		
☐ An assi	gnment of the invention to	
——— □ is at	tached	
□ will	follow.	
NOTE: "If an a one for	ssignment is submitted with a new application the assignment." Notice of May 4, 1990	ation, send two separate letters-one for the application and (1114 D.G. 77-78).
9. Certified Co	рру	
Certified copy	(ies) of application(s)	
(country)	(appln. no.)	(filed)
(country)	(appln, no.)	(filed)
(country)	(appln. no.)	(filed)
from which price	ority is claimed	
	attached. A separate "ASSIGNMENT C	OVER LETTER ACCOMPANYING NEW PATENT
□ was fil	ed in U.S. Patent Application Serial No.	08/
	reign application forming the basis for the ration. 37 CFR 1.55(a) and 1.63.	e claim for priority must be referred to in the oath or
U.S. a <sub>j</sub> 120 is PAGE	pplication or International Application fro itself entitled to priority from a prior fore	the application being filed directly relates. If any parent orm which this application claims benefit under 35 U.S.C. sign application then complete item 18 on the ADDED ITTAL WHERE BENEFIT OF PRIOR U.S.
10. Fee Calcul	ation (37 CFR 1.16)	

## A. X Regular application

Number filed	Number Extra		Rate	Basic Fee \$710.00
Total				
Claims 37 CFR 1.16(c)	9 - 20=	X	\$18.00	
Independent				
Claims (37 CFR 1.16(b))	1 - 3=	х	\$80.00	
Multiple dependent claim(s	), if any			
(37 CFR 1.16.(d))			\$270.00	

<ul> <li>☐ Amendment canceling extra claims enclosed.</li> <li>☐ Amendment deleting multiple-dependencies enclose</li> <li>☐ Fee for extra claims is not being paid at this time.</li> </ul>	ed.	
NOTE: If the fees for extra claims are not paid on filing, the prior to the expiration of the time period set for respond fee deficiency. 37 CFR 1.16(d).	ey must be paid or the claims car conse by the Patent and Tradema	nceled by amendment, irk Office in any notice
	Filing Fee Calculation	\$ <u>710.00</u>
<b>B.</b> □ <b>Design application</b> (\$320.00-37 CFR 1.16(f))		
	Filing Fee Calculation	\$
C. □ Plant application (\$530.00-37 CFR 1.16(g))		
	Filing Fee Calculation	\$
11. Small Entity Statement(s)		
X Verified Statement(s) that this is a filing by a small was filed on March 10, 1999. In pareut	entity under 37 CFR 1.9 and 1.2	27
Filing Fee Calculation (50% of A, B, or C above)	\$_355.00	
<b>NOTE:</b> Any excess of the full fee paid will be refunded if a 2 months of the date of timely payment of full fee.	a verified statement and a refund 37 CFR 1.28(a).	request are filed within
12. Request for International-type Search (37 CFR 1.104	(d))(complete, if applicable)	
☐ Please prepare an international-type search report f examination on the merits takes place.	for this application at the time wh	nen national
13. Fee Payment Being Made At This Time		
☐ Not Enclosed		
No filing fee is to be paid at this time. (This and the subsequently.)	ne surcharge required by 37 CFR	1.16(e) can be paid
X Enclosed		
X basic filing fee	\$ 355.00	_
☐ recording assignment (\$40.00; 37 CFR 1.21(h))	\$	
□ petition fee for filing by other than all the inventors or person on behalf of the inventor where inventor refused to sign or cannot be reached. (\$130.00; 37 CFR 1.47 and 1.17(h))	\$	

	a specification in a non-English language. (\$130.00; 37 CFR 1.52(d)		
	and 1.17(k)).	\$	
	processing and retention fee (\$130.00; 37 CFR 1.54(d) and 1.17(k)).	\$	
	fee for international-type search report (\$40.00; 37 CFR 1.21(e)).	\$	
fai 1.5 m	CFR 1.21(1) establishes a fee for processing ling to complete the application pursuant to 3 1.78, indicate that in order to obtain the last be paid or the processing and retention f der § 53(d).	37 CFR 1.53(d) and this, penefit of a prior U.S. appl	as well as the changes to 37 CFR lication, either the basic filing fee
	TOTAL 1	FEES ENCLOSED	\$ 355.00
14. Method	l of Payment of Fees		
X Cl	neck in the amount of \$355.00		
	narge Account No in the amou	- nt of \$ A dupl	icate of this transmittal is attached.
NOTE: Fa	es should be itemized in such a manner tha	t is clear for which nurnos	e the fees are paid 37 CFR 1.22(b).
NOTE. IC	es should be herrized in such a mainter ma	t is clear for which purpos	o the 1000 are para. 5 1 02 22 1.22(0).
15. Author	rization to Charge Additional Fees		
Warning:	If no fees are to be paid on filing the following item	s should <b>not</b> be completed.	
Warning:	Accurately count claims, especially multiple depend	lent claims, to avoid unexpected	high charges if extra claims are authorized.
	ne Commissioner is hereby authorized to chatire pendency of this application to Accoun		fees by this paper and during the
X	37 CFR 1.16(a) or (g) (filing fees)		
X	37 CFR 1.16(b), (c) and (d) (presentation	of extra claims)	
m re	ecause additional fees for excess or multiple oust only be paid or these claims canceled by esponse by the PTO in any notice of fee defi TO to charge additional claim fees, except p	y amendment prior to the ciciency (37 CFR 1.16(d)),	expiration of the time period set for it might be best not to authorize the
Х	37 CFR 1.16(e) (surcharge for filing the b date of the application)	asic filing fee and/or declar	aration on a date later than the filing
x	37 CFR 1.17 (application processing fees	)	
Warning:	While 37 CFR 1.17(a), (b), (c) and (d) de should be made only with the knowledge CFR 1.136(a) is to no avail <u>unless</u> a reque of November 5, 1985 (1060 O.G. 27).	that "Submission of the ap	opropriate extension fee under 37
		(Applio	cation Transmittal [4-1]page 6 of 8)

Tel. No. (516) 365-9802

☐ 37 CFR 1.18 (issue fee at or before mailing of N	Notice of Allowance, pursuant to 37 CFR 1.311(b))
NOTE: Where an authorization to charge the issue fee to a Notice of Allowance, the issue fee will be automat mailing the Notice of Allowance. 37 CFR 1.311(b)	ically charged to the deposit account at the time of
NOTE: 37 CFR 1.28(b) requires "notification of any chang filed in the applicationprior to paying, or at the ti 1.28(b); (a) notification of change of status must b entity" and (b) no notification is required if the change	me of paying,issue fee." From the wording of 37 CFR e made even if the fee is paid as "other than a small
16. Instructions As to Overpayment	
X credit Account No. 03 2468	$\Omega \Omega_{\ell}$
□ refund	Edword Jelling
Registration No. 26,048	Signature of Attorney
	EDWARD R. FREEDMAN Name of Attorney
	name of Attorney

1077 NORTHERN BOULEVARD

ROSLYN, NY 11756

☐ Incorporation by reference of added pages
Check the following item if the application in this transmittal claims the benefit of prior of U.S. application(s) (including an international application entering the U.S. stage as a continuation, divisional or C-I-P application) and complete and attach the ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMEI
☐ Plus added pages for new Application Transmittal where Benefit of Priority U.S. Application(s) Claimed
Number of pages added
☐ Plus added Pages for Papers Referred To in Item 4 Above
Number of pages added
☐ Plus "Assignment Cover Letter Accompanying New Application"
Number of pages added
Statement Where No Further Pages Added
(If no further pages form a part of this Transmittal then end this Transmittal with this page and check the following item)
☐ This transmittal ends with this page.

# ADDED PAGES FOR APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED

NOTE: "In order for an application to claim the benefit of a prior-filed co-pending national application, the prior application must name as an inventor at least one inventor named in the later-filed application and disclose the named inventor's invention claimed in at least one claim of the later-filed application in the manner provided by the first paragraph of 35 U.S.C. 112." 37 CFR 1.78(a).

NOTE: "In addition, the prior application must be (1) complete as set forth in §1.51 or (2) entitled to a filing date as set forth in §1.53(b) and have paid therein the processing and retention fee set forth in §1.21(1) within the time period set forth in §1.53(d)." 37 CFR 1.78(a).

### 17. Relate Back-35 U.S.C. 120

NOTE: "Any application claiming the benefit of a prior filed co-pending national or international application must contain or be amended to contain in the first sentence of the specification following the title a reference to such prior application identifying it by serial number and filing date or international application number and international filing date and indicating the relationship of the applications." 37 CFR 1.78(a). See also the Notice of April 28, 1987 (1079 O.G. 32 to 46).

☐ The specification as filed lists the prior art information.

X Amend the Specification by inserting before the first line the sentence:

"This is a

□ continuation
X continuation-in-part
□ divisional
of co-pending application(s)
X serial number 09/265,738 filed on MARCH 10, 1999
□ International Application filed on and which designated the U.S."

**NOTE:** The proper reference to a prior filed PCT application which entered the U.S. national phase in the U.S. serial number and the filing date of the PCT application which designated the U.S.

NOTE: (1) Where the application being transmitted adds subject matter to the International Application then the filing can be as a continuation-in-part or (2) it is desired to do so for other reasons, e.g. where no declaration is available, no English translation is available or no fee is to be paid in filing then the filing can be as a continuation, in these cases the International Application designating the U.S. is treated as the parent case in the U.S. and is an alternative to the completion of the International Application under 35 U.S.C. 371(c)(4) which must meet the requirements of 37 CFR 1.61(a). This alternative permits the completion of the filing requirements within any term set by the PTO under 37 CFR 1.53(d) to which the extension provisions of 37 CFR 1.136(a) apply. (Whereas, if the filing is an international application entering the U.S. date, then the fee, declaration and/or English translation (where necessary) is due within 20 months of the priority date but can be paid within 22 months of the priority date (or 1s due within 30 months of the priority date but can be submitted within 32 months of the priority date) with the surcharges set forth in 37 CFR 1.492(e), (f) and 37 CFR 1.495(c); however, the provisions of 37 CFR 1.136 do not apply to this 22 or (32 month) period. 37 CFR 1.61(b).

**NOTE:** The deadline for entering the national phase in the U.S. for an international application was clarified in the Notice of April 27, 1987 (1079 O.G. 32 to 46) as follows:

"The Patent and Trademark Office considers the International application to be pending until the 22nd month from the priority date if the United States has been designated and no Demand for International Preliminary Examination has been filed prior to the expiration of the 19th month from the priority date and until the 32nd month from the priority date if a Demand for International Preliminary Examination which elected the United States of America has been filed prior to the expiration of the 19th month from the priority date, providing that a copy of the international application has been communicated to the U.S. Patent and Trademark Office within the 20 or 30 month period respectively. If a copy of the international application has not been communicated to the U.S. Patent and Trademark Office within the 20 or 30 month period respectively, the International Application becomes abandoned or the United States 20 or 30 months from the priority date respectively. These periods have been placed in the rules as paragraph (h) of §1.494 and paragraph (2) of §1.495. A continuing application under 35 U.S.C. 365(c) and 120 may be filed anytime during the pendency of the international application."

(Added Pages for Application Transmittal Where Benefit of a Prior U.S. Application Claimed [4-1.1]-page 1 of 3)

1	ion(s), including any prior internati s) foreign priority(ies) as follows:	onal Application designating the U.S., iden	unied abo
GERMANY	198 10 433.2	MARCH 11, 1998	
country	appl. no.	filed on	
	as (have) AY 3, 1999 in prior appli 10, 1999 on which the prior U.S. A		
☐ is (are) attached			
International	l Bureau may not be relied on with	which may have been communicated but any need to file a certified cop of the property of the principle of th	riority app

WARNING: The certified copy of the priority application which may have been communicated to the PTO by the International Bureau may not be relied on without any need to file a certified cop of the priority application in the continuing application. This is so because the certified copy of the priority application communicated by the International Bureau is placed in a folder and not assigned a U.S. serial number unless the national stage is entered. Such folders are disposed of if the national stage is not entered. Therefore such certified copies may not be available if needed later in the prosecution of a continuing application. An alternative would be to physically remove the priority documents from the folders and transfer them to the continuing application. The resources required to request transfer, retrieve the folders, make suitable record notations, transfer the certified copies, enter and make a record of such copies in the Continuing Application are substantial. Accordingly, the priority documents in folders of international applications which have not entered the national stage may not be relied on. Notice of April 28, 1986 (1079 O.G. 32 to 46).

### 19. Maintenance of Copendency of Prior Application

18. Relate Back-35 U.S.C. 119 Priority Claim for Prior Application

**NOTE:** The PTO finds it useful if a copy of the petition filed in the prior application extending the term for response is filed with the papers constituting the filing of the continuation application. Notice of November 5, 1985. (1060 O.G. 27).

A. X Extension of time in prior application

(This item must be completed and the papers filed in the prior application if the period set in the prior application has run)

- X A petition, fee and response extends the term in the pending **prior** application until JANUARY 18, 2001
  - X A copy of the petition filed in the prior application is attached
- B. 

  Conditional Petition of Extension of Time in Prior Application (complete this item if previous item not applicable)
  - ☐ A conditional petition for extension of time is being filed in the pending **prior** application.
    - □ a copy of the conditional petition filed in the prior application is attached

### 20. Further Inventorship Statement Where Benefit of Prior Application(s) Claimed

NOTE: "If the continuation, continuation-in-part, or divisional application filed by less than all the inventors named in the prior application, a statement must accompany the application when filed requesting deletion of the names of the person or persons who are not inventors of the invention being claimed in the continuation, continuation-in-part, or divisional application." 37 CFR 1.62(a) (emphasis added). (Dealing with the file wrapper continuation situation).

NOTE: "In the case of a continuation-in-part application which adds and claims additional disclosure by amendment, an oath or declaration as required by §1.63 must be filed. In those situations where a new oath or declaration is required due to additional subject matter being claimed, additional inventors may be named in the continuing application, in a continuation or divisional application which discloses and claims only subject matter disclosed in a prior application, no additional oath or declaration is required and the application must name as inventors the same or less than all the inventors in the prior application." 37 CFR 1.60(c). (Dealing with the continuation situation).

(complete applicable item (a), (b) and/or (c) below)
(a) ☐ The application discloses and claims only subject matter disclosed in the prior application whose particulars are set out above and the inventor(s) in this application are ☐ the same
less than those named in the prior application and it is requested that the following inventor(s) identified for the prior application be deleted:
(Type name(s) of inventor(s) to be deleted)
(b) ☐ The application discloses and claims additional disclosure by amendment and a new declaration and oath is being filed. With respect to the prior application the inventor(s) in this application are ☐ the same ☐ the following additional inventor(s) have been added
ine following additional involtes (s) and over a section
(Type name(s) of additional inventor(s) to be added)
(c) The inventorship for all the claims in this application are
X the same  ☐ not the same, and an explanation, including the ownership of the various claims at the time the last claimed invention was made  ☐ is submitted
☐ will be submitted
21. Abandonment of Prior Application (if applicable)  ☐ Please abandon the prior application at a time while the prior application is pending or when the petition for extension of time or to revive in that application is granted and when this application is granted a filing date so as to make this application co-pending with said prior application.
NOTE: According to the Notice of May 13, 1983 (103, TMOG 6-7) the filing of a continuation or continuation-in-part application is a proper response with respect to a petition to revive and should include the express abandonment of the prior application conditioned upon the granting of the petition and the granting of a filing date to the continuing application.
22. Petition for Suspension of Prosecution for the Time Necessary to File an Amendment
WARNING: "The claims of a new application may be finally rejected in the first Office Action in those situations where (1) the new application is a continuing application of, or a substitute for, an earlier application, and (2) all the claims of the new application (a) are drawn to the same invention claimed in the earlier application, and (b) would have been properly finally rejected on the grounds of art of record in the next Office Action if they had been entered in the earlier application." MPEP §706.07(b).
NOTE: Where it is possible that the claims on file will give rise to a first action final for this continuation application and for some reason an amendment cannot be filed promptly (e.g. experimental data is being gathered) it may be desirable to file a petition for suspension of prosecution for the time necessary.
(check the next item, if applicable)

(Added Pages for Application Transmittal Where Benefit of a Prior U.S. Applications Claimed [4-1.1]-page 3 of 3

☐ There is provided herewith a Petition to Suspend Prosecution for the Time Necessary to File an Amendment (New

Application Filed Concurrently)